

15541 U.S. PTO 06/20/03 Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' "M.P.E.P. § 601, 7th ed.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

## **NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of

Inventor(s): BENOIST SEBIRE

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

BIT SWAPPING FOR DIFFERENT INTERLEAVING DEPTHS

### CERTIFICATION UNDER 37 C.F.R. § 1.10\*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>June 20, 2003</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number <u>EV252882332US</u>, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Margery B. Hood

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing, 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

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## 1. Type of Application

This new application is for a(n)

(check one applicable item below)

Original (nonprovisional)

Design

Plant

WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.

WARNING: Do not use this transmittal for the filing of a provisional application.

NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

Divisional.

Continuation.

Continuation-in-part (C-I-P).

# 2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
  - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

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WARNING: When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
☐ The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3. Papers Enclosed
A. Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application
_26_ Pages of specification
4_ Pages of claims
WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filling a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).
NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (% inch) down from the top of the page" 37 C.F.R. § 1.84(c)).
(complete the following, if applicable)
☐ The enclosed drawing(s) are photograph(s). Three (3) sets of photographs and a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)" are attached. 37 C.F.R. § 1.84(b).
The enclosed drawing(s) are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b).
☐ informal
B. Other Papers Enclosed
Pages of declaration and power of attorney
_1_ Pages of abstract
Other
4. Additional papers enclosed
☐ Amendment to claims
☐ Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
<ul> <li>Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)</li> </ul>

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X	g I	information Disclosure Statement (37 C.F.R. § 1.98)			
2	i Q	Form PTO-1449 (PTO/SB/08A and 08B)			
[2	<u>s</u> ) (	Citations			
		Declaration of Biological Deposit			
	ŗ	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.			
	_	Authorization of Attorney(s) to Accept and Follow Instructions from Representa- tive			
C	] :	Special Comments			
C	3 (	Other			
5. Dec	clara	ation or oath (including power of attorney)			
10012	the by app the by a bein dec	newly executed declaration is not required in a continuation or divisional application provided that prior nonprovisional application contained a declaration as required, the application being filed is all or fewer than all the inventors named in the prior application, there is no new matter in the discation being filed, and a copy of the executed declaration filed in the prior application (showing signature or an indication thereon that it was signed) is submitted. The copy must be accompanied a statement requesting deletion of the names of person(s) who are not inventors of the application in filed. If the declaration in the prior application was filed under § 1.47, then a copy of that claration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning son under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently cuted declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).			
NOTE:	is d abb cou	A declaration filed to complete an application must be executed, identify the specification to which is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)–(4).			
NOTE:	as p as p is th this	e inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship hat inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name harmes of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).			
	) E	Enclosed			
	E	Executed by			
		(check all applicable boxes)			
	[	inventor(s).			
	[	legal representative of inventor(s).  37 C.F.R. §§ 1.42 or 1.43.			
	(	joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.			
		☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.			
ΙX	1 6	Not Enclosed.			
NOTE:	the may	ere the filing is a completion in the U.S. of an International Application or where the completion of U.S. application contains subject matter in addition to the International Application, the application or be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE RINEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.			
	E	Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).			

☐ Preliminary Amendment

(The de	eclaration or	oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
		Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
6. Invent	torship Stat	ement
WARNING		f inventors are each not the inventors of all the claims an explanation, including the If the various claims at the time the last claimed invention was made, should be
The inve	entorship for	all the claims in this application are:
	The same.	
		or
		ne. An explanation, including the ownership of the various claims at a last claimed invention was made,
	☐ is subr	nitted.
	☐ will be	submitted.
7. Langu	ıage	
A. re	n English trans quired by 37 C	cluding a signed oath or declaration may be filed in a language other than English. lation of the non-English language application and the processing fee of \$130.00 F.R. § 1.17(k) is required to be filed with the application, or within such time as may lice. 37 C.F.R. § 1.52(d).
X	English	
	Non-English	ı
		ached translation includes a statement that the translation is accu-7 C.F.R. § 1.52(d).
8. Assigı	nment	
×	An assignm	ent of the invention to <u>Nokia Corporation</u>
	MENT)	thed. A separate  "COVER SHEET FOR ASSIGNMENT (DOCU-ACCOMPANYING NEW PATENT APPLICATION" or  FORM PTO also attached.
	☑ will follow	ow.
		is submitted with a new application, send two separate letters-one for the application issignment." Notice of May 4, 1990 (1114 O.G. 77-78).
WARNING	-	suted "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation- cation is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.
	This is a [	continuation divisional application and the assignment
	document f	or the parent application 0 / was filed
	on	
		Reel
		Frame
		(New Application Transmittal [4-1]—page 5 of 11)

Certified copy(ies)	of application(s)					
Country	· · ·	Appln. N	10.			Filed
Country		Appln. N	No.			Filed
Country	<del></del>	Appln. N	10.			Filed
from which priority is	claimed					
☐ is (are) atta	ached.					
☐ will follow.						
_ , .	lication forming the C.F.R. § 1.55(a) and		claim for	priority must b	e refe	rred to in the oath or
U.S. application § 120 is itself er	or International App ntitled to priority fror	olication from v m a prior foreig	vhich this in applica	application cla	ims be plete it	relates. If any parent enefit under 35 U.S.C. em 18 on the ADDED J.S. APPLICATION(S)
10. Fee Calculation	ı (37 C.F.R. § 1	1.16)				
A. 🛭 Regular ap	oplication					
	С	LAIMS AS	FILED			
Number filed	٨	lumber Exti	a	Rate	37	Basic Fee C.F.R. § 1.16(a) x\$7x10x00 \$750.00
Total Claims (37 C.F.R. § 1.16(c))	12 - 20 =	0	· ×	\$ 18.00		
Independent						
Claims (37 C.F.R. § 1.16(b))	2 - 3 =	0	×	\$ 80.00		
Multiple dependent c if any (37 C.F.R. §			+	\$270.00		
☐ Amendme	nt cancelling ex	tra claims is	s enclo	sed.		
☐ Amendment	nt deleting multi	iple-depend	lencies	is enclosed		
☐ Fee for ex	tra claims is no	t being paid	d at this	s time.		
		eriod set for n				celled by amendment, ademark Office in any
	· ·	ee Calculat	ion		\$.	750.00
<b>B.</b> ☐ Design ap (\$310.00—	•				• -	

Filing Fee Calculation

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9. Certified Copy

С. Ц	(\$480.00—37 C.F.	R. § 1.16(g))	
		Filing fee calculation	\$
11. Smal	II Entity Statement	(s)	
	Statement(s) that t is (are) attached.	his is a filing by a small e	ntity under 37 C.F.R. § 1.9 and 1.27
WARNING	the status is available affect any other appindirectly dependent refiling of an applicate a continued prosecut a new determination application. A nonpression of a properties of the statement in the prindesired. The payment	and desired. Status as a smallication or patent, including a upon the application or patent on under § 1.53 as a continual ion application under § 1.53(d) as to continued entitlement to sovisional application claiming be dication, or a reissue application patent if the nonprovisional application or in the patent a	dished in each application or patent in which ill entity in one application or patent does not applications or patents which are directly or in which the status has been established. The ion, division, or continuation-in-part (including), or the filing of a reissue application requires small entity status for the continuing or reissue enefit under 35 U.S.C. § 119(e), 120, 121, or on may rely on a statement filed in the prioriplication or the reissue application includes an or in the patent or includes a copy of the ind status as a small entity is still proper and any filing fee will be treated as such a reference of.
WARNING		nake the required self-certificat	e person or persons signing the : statement ion." M.P.E.P., § 509.03, 6th ed., rev. 2, July
	(co	mplete the following, if a	pplicable)
	Status as a small	entity was claimed in pr	ior application
		, filed on or this application under	, from which benefit
		119(e), 120, 121, 365(c),	
	and which status	as a small entity is still	proper and desired.
	• •	e statement in the prior	••
	Filing Fee Cal	culation (50% of A, B or	C above)
an		of the date of timely paymen	titiy status is established and a refund request t of a full fee. The two-month period is not
12. Requ	est for Internation	nal-Type Search (37 C.F	F.R. § 1.104(d))
		(complete, if applicat	ole)
		international-type search mination on the merits t	report for this application at the time akes place.

· · · · · ·

13. r	-ee	Payr	nent being made at This Time	
	X)	Not	Enclosed	
			No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. subsequently.)	§ 1.16(e) can be paid
		Enc	losed	
			Filing fee	\$
			Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$
			inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached	\$
			(\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	<b>a</b>
			For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$
			Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$
			Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$
NOTE	fa 3 ei	iiling to 7 C.F.I ither th	R. § 1.21(I) establishes a fee for processing and retaining any appoor complete the application pursuant to 37 C.F.R. § 1.53(I) and the R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benefice basic filing fee must be paid, or the processing and retention by year from notification under § 53(I).	his, as well as the changes to efit of a prior U.S. application,
			Total fees enclosed	\$
14. N	Mett	nod d	of Payment of Fees	
		Atta	ched is a check money order in the amount of	of \$
		Autl	norization is hereby made to charge the amount of	\$
			to Deposit Account No	
			to Credit card as shown on the attached credit card tion form PTO-2038.	d information authoriza-
WARI	NING	: Cre	edit card information should not be included on this form as it r	may become public.
			rge any additional fees required by this paper or one manner authorized above.	credit any overpayment
			A duplicate of this paper is attached.	

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15. Authorization to Charg Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed. WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized. The Office is hereby authorized to charge, in the manner shown above, the following additional fees that may be required by this paper and during the entire pendency of this application. ☐ 37 C.F.R. § 1.16(a), (f) or (g) (filing fees) 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims) NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action. 37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application) 37 C.F.R. § 1.17(a)(1)–(5) (extension fees pursuant to § 1.136(a)). ☐ 37 C.F.R. § 1.17 (application processing fees) NOTE: ". . . A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission. as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3). 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b)) NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing

of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

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NOTE: *	reasonable time, nor will the payer	rs or less will not be returned unless specifically requested within to be notified of such amounts; amounts over twenty-five dollars may ted, by credit to a deposit account." 37 C.F.R. § 1.26(a).
ت ت	Credit Account No.	
	Refund	
		(2)
		Tamis Macure
		SIGNATURE OF PRACTITIONER /
Reg. No.	31,391	Francis J. Maguire Ware, Fressola, Van Der Sluys & Adolphson LL
		(type or print name of attorney)
Tel. No. (	203) 261–1234	755 Main Street, P.O. Box 224

P.O. Address

Monroe, Connecticut 06468

(New Application Transmittal [4-1]—page 10 of 11)

Customer No. 004955

	Incor	poration by refer nce of added pages
	pi st th	heck the following item if the application in this transmittal claims the benefit of flor U.S. application(s) (including an international application entering the U.S. age as a continuation, divisional or C-I-P application) and complete and attach e ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF RIOR U.S. APPLICATION(S) CLAIMED)
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added
		Plus Added Pages for Papers Referred to in Item 4 Above
		Number of pages added
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
		Number of pages added
		Plus "Assignment Cover Letter Accompanying New Application"
		Number of pages added
X	State	ment Where No Further Pages Added
		no further pages form a part of this Transmittal, then end this Transmittal with is page and check the following item)
	Ž	This transmittal ends with this page.

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